

REMARKS/ARGUMENTS

Claim 1 has been amended to clarify the claim.

Claim 4 has antecedent basis.

Claim 5 has antecedent basis.

Claim 6 has been amended to clarify the claim.

Claim 8 has been amended to clarify the claim.

The Examiner rejected claims 1-7 and 9-10 as being anticipated by Srinivasan et al., U.S. Patent No., 6,357,042.

The Examiner suggests that Srinivasan et al. disclose an apparatus and method for synchronizing separately-authored metadata with video/audio stream for display using a presentation time stamp (PTS) tag. In the embodiment of FIG. 16, the metadata is web-based content, such as authored videos, interactive videos, and annotation streams, and the video capture and synchronization device is a set-top-box. The metadata video content includes a structure for receiving a time stamp value associated with the video element. The metadata is tagged with an appropriate frame number or numbers (PTS) which will indicate a frame or series of frames where resulting annotation will appear during playback of the video. The metadata and associated video content is encoded and set out as private data in the MPEG multiplexed stream.

In other words, Srinivasan et al. disclose a system by which documents may be delivered to the decoder together with a PTS time stamp. Srinivasan et al. specifically teaches that such metadata video content is delivered using the private data in the MPEG-2 multiplexed data

stream. While apparently functional, the use of the private data provision of the MPEG-2 multiplexed data stream results in difficulty precisely knowing the appropriate value of the PTS time stamp value beforehand. For example, the author of the metadata video content will not likely have an accurate value for what the PTS tag is when the content is authored, which may be on a different day than the other content.

Claim 1 patentably distinguishes over Srinivasan et al. by claiming that the document includes a structure for receiving a time stamp value associated with the video element in a packetized elementary stream.

Claim 1 further patentably distinguishes over Srinivasan et al. by claiming that the document is not provided using a private data provision of the MPEG-2 multiplexed data stream.

Srinivasan et al. fails to teach any technique of using the packetized elementary stream (see e.g., present application FIG. 2, number 54) for a document. In contrast, Srinivasan et al. uses the private data in the MPEG-2 multiplexer, which is distinctly different than the packetized elementary stream.

By way of example, and not by any way meant to interpret or otherwise limit the claims, the packetized elementary stream potentially facilitates more accurate presentation of the document. For example, the document may be transmitted in the packetized elementary stream with a PTS time stamp, for which the value of the PTS time stamp is not important. In Srinivasan et al. the value of the PTS time stamp in the multiplexer is important for presentation because of the use of the private data in the MPEG-2 multiplexer. This is an improvement

because the author may have no information of what the value should be when the document was authorized. In the receiver, the PTS may be extracted from the PTS header and provided to the document where the PTS tag placeholder is. Now the system has a valid PTS value in the document that the receiver can use to synchronize the document with the audio and video.

While these limitations are not included in claim 1, the use of the packetized elementary stream for the document facilitates such a system which is not taught nor suggested in any way by Srinivasan et al.

Claims 2-5 depend from claim 1 and are patentable for the same reasons asserted for claim 1.

Claim 6 patentably distinguishes over Srinivasan et al. by claiming encoding in a packetized elementary stream a first data packet comprising the document and the time stamp value, and encoding in a packetized elementary stream a second data packet comprising the time stamp value and a target datum in at least one of the video element and the audio element.

Claim 6 further patentably distinguishes over Srinivasan et al. by claiming that the document is not provided using a private data provision of the MPEG-2 multiplexed data stream.

Srinivasan et al. fails to teach any technique of using the packetized elementary stream (see e.g., present application FIG. 2, number 54) for a document. In contrast, Srinivasan et al. uses the private data in the MPEG-2 multiplexer, which is distinctly different than the packetized elementary stream.

Claims 7-10 depend from claim 6 and are patentable for the same reasons asserted for

claim 6.

Claim 11 patentably distinguishes over Srinivasan et al. by claiming the packet assembler encoding in a packetized elementary stream a first data packet comprising a data unit representing the document and a time stamp value specifying a time for displaying the document and a second data packet comprising the target datum and the time stamp value.

Claim 11 further patentably distinguishes over Srinivasan et al. by claiming that the document is not provided using a private data provision of the MPEG-2 multiplexed data stream.

Srinivasan et al. fails to teach any technique of using the packetized elementary stream (see e.g., present application FIG. 2, number 54) for a document. In contrast, Srinivasan et al. uses the private data in the MPEG-2 multiplexer, which is distinctly different than the packetized elementary stream.

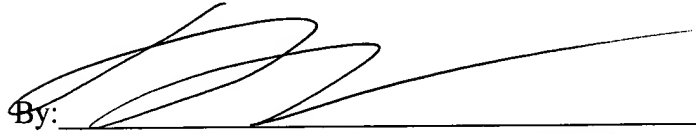
Claims 12-14 depend from claim 11 and are patentable for the same reasons asserted for claim 11.

This Amendment is being submitted with a Request for Continued Examination, and a Petition for Extension of Time, together with the requisite fees. The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment, to Deposit Account No. 03-1550.

Respectfully submitted,

Appl. No. 09/287,402
Amdt. dated 04/26/2006
Reply to Office Action 12/29/05

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Dated: 4/24/2006